

<u>Insurance Plan Code</u>	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat	0021 Cotton	0078 Sunflower	
	0015 Canola	0041 Corn	0081 Soybeans	
	0018 Rice	0051 Grain Sorghum	0091 Barley	

<u>Calculations</u>	<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
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Section 1: Stage Guarantee Calculation

Guarantee Per Acre = Approved Yield * Coverage Level Percent	Guarantee Per Acre	Internal		999999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	
	Approved Yield	P11	47	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	
Acre Guarantee Quantity = Guarantee per Acre * Guarantee Adjustment Factor	Acre Guarantee Quantity	P11	101	99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	
	Guarantee Adjustment Factor	P11	75	0.999	None	

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Revenue Protection, "02", Revenue Protection Guarantee Calculation: Acre Stage Guarantee = Acre Guarantee Quantity * (Projected Price or Harvest Amount = Price which ever is greater * Price Election Percent)		Acre Stage Guarantee Amount	P21	36	999999999.99	Round to nearest Dollar and cents.	
		Projected Price	ADM		99999.9999	None	Edit with ADM Price, "00810".
		Harvest Price	ADM		99999.9999	None	Edit with ADM Price, "00810".
		Price Election Percent	Internal		9.999	None	Must equal 1.000
Revenue Protection with Harvest Price Exclusion, "03", Revenue Protection Guarantee Calculation: Revenue Protection Stage = Acre Guarantee Quantity * (Projected Price * Price Guarantee Per Acre = Election Percent)		Acre Stage Guarantee Amount	P21	36	999999999.99	Round to nearest Dollar and cents.	
		Projected Price	ADM		99999.9999	None	Edit with ADM Price, "00810".
		Price Election Percent	Internal		9.999	None	Must equal 1.000
Section 2: Loss Guarantee Calculation							
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor		Loss Guarantee Amount	P21	49	999999999.99	Round to whole number.	
		Determined Acreage	P21	17	999999999.99	None	
		Liability Adjustment Factor	P21	40	9.999999	None	
Revenue Conversion Production to Count = Production to Count Quantity * Harvest Price		Revenue Conversion Production to Count	P21	46	999999999.99	Round to whole number.	
		Production to Count Quantity	P21	34	999999999.99	Round to nearest whole pounds, nearest hundreth for tonage commodities, or nearest tenths for other units of measure.	
		Harvest Price	ADM		99999.9999	None	Edit with ADM Price, "00810". If Harvest Price has not been released for revenue Protection, "02", the Projected Price can be used for validation of Revenue to Count.

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Section 3: Indemnity Calculation						
Unit Deficiency Quantity = $\frac{\text{Loss Guarantee Amount} - \text{Revenue Conversion Production to Count}}{\text{Production to Count}}$	Unit Deficiency Quantity	P21	35	\$99999999.99	Round to whole number.	
Preliminary Indemnity Amount = $\text{Unit Deficiency Quantity} * \text{Insured Share Percent}$	Preliminary Indemnity Amount	P21	52	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	46	9.999	None	
Indemnity Amount = $\frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}{\text{Multiple Commodity Adjustment Factor}}$	Indemnity Amount	P21	53	\$9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity = $\sum \text{Indemnity Amount for the Unit}$	Total Indemnity	Internal		\$9999999999	Round to whole number.	

Section 4: Stage Guarantee Calculation						
Prevented Planting Payment for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03".						
When Stage Code equals: Prevented Planting Option 1, "P1", Prevented Planting Option 2, "P2", Prevented Planting Option 3, Harvested, "H3", Prevented Planting Option 3, Unharvested, "U3", Prevented Planting Uninsured Loss, "PU", Prevented Planting Add 10 Percent, "PT", Prevented Planting Add 5 Percent, "PF"						
	Acre Stage Guarantee Amount	P21	36	999999999.99	Round to dollar and cents.	
	Acre Stage Guarantee Amount = $\text{Acre Guarantee Quantity} * (\text{Projected Price} * \text{Price Election Percent}) * \text{Guarantee Adjustment Factor}$	Projected Price	ADM	9999.9999	None	Edit with ADM Price, "00810".
		Price Election Percent	ICE	9.9999	None	Edit with ICE Price Election Percent, "D00007".
		Guarantee Adjustment Factor	P11	75	0.999	None

Section 5: Prevented Planting Payment Loss Guarantee Calculation						
Loss Guarantee Amount = $\frac{\text{Acre Stage Guarantee Amount} * \text{Determined Acreage}}{\text{Liability Adjustment Factor}}$	Loss Guarantee Amount	P21	49	99999999.99	Round to whole number.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	40	9.999999	None	

<div> <div>Exhibit Name: Indemnity Calculations</div> <div>Exhibit Number: P21-2, Plan 02 & 03</div> <div>Record Name: Acreage Claim</div> <div>Record Code: P21</div> </div> <div> <div>Reinsurance Year: 2011</div> <div>Version: Approved</div> <div>Release Date: 6/30/2010</div> </div>						
<u>Insurance Plan Code</u>	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion			
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<u>Calculations</u>	<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
Section 6: Prevented Planting Payment Indemnity Calculation						
Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Preliminary Indemnity Amount	P21	52	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	46	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	53	\$9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity Σ Indemnity Amount for the Unit	Total Indemnity	Internal		\$9999999999	Round to whole number.	
Section 7: Stage Guarantee Calculation						
Replant Payment for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03"						
<div>When Stage Code equals Replanted, "R", Replanted Seed, "RS", Replanted Transplant, "RT"</div> <div>Guarantee Per Acre = Approved Yield * Coverage Level Percent</div>	Guarantee Per Acre	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	
	Approved Yield	P11	47	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	

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<u>Calculations</u>			<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
Acre Guarantee Quantity = Guarantee per Acre * Guarantee Adjustment Factor			Acre Guarantee Quantity	P11	101	99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	
			Guarantee Adjustment Factor	P11	75	0.999	None	

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Price Election Amount = Projected Price * Price Election Percent	Price Election Amount	Internal		9999.999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [\$9.999].	
	Projected Price	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price may be used in Lieu of the Projected Price for specialty types of Soybeans or Barleys. If the insured chooses to use the contract price, the contract price per bushel should be entered in the contract price field. The contracted price will be capped by RMA at a certain percentage over the projected price for Soybeans and Barley as specified in the Special Provisions.
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00, when Insurance Plan Code equals Revenue Protection, "02". Otherwise, edit with ICE Price Election Percent, "D00007".

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Lesser of: Acre Stage Guarantee = (20% of Acre Guarantee Quantity Amount OR Maximum Stage Guarantee) * Price Election Amount	Acre Stage Guarantee Amount	P21	36	999999999.99	Round to 1 decimal.	
	Price Election Amount	Internal		99999.999	None	Price Election Percent must equal 1.00 when Insurance Plan Code is Yield Protection, "01" or Revenue Protection, "02".
	Maximum Stage Guarantee					
Section 8: Replant Payment Loss Guarantee Calculation						
Loss Guarantee Amount = Replant Stage Guarantee Per Acre * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	49	999999999.99	Round to whole number.	
	Determined Acreage	P21	17	999999999.99	None	
	Liability Adjustment Factor	P21	40	9.999999	None	
Section 9: Replant Payment Indemnity Calculation						
Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Preliminary Indemnity Amount	P21	52	S9999999999	Round to whole number.	
	Insured Share Percent	P11	48	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount	Indemnity Amount	P21	53	S9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		S9999999999	Round to whole number.	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 10: Stage Guarantee Calculation						
Malting Barley Price and Quality Endorsement						
<div> <div>Production Guarantee Per Acre = (Approved Yield * Coverage Level Percent) * Guarantee Adjustment Factor</div> </div>	Production Guarantee Per Acre	Internal		999999999.9	Round to nearest whole pounds, nearest hundreth for tonage commodities, or nearest tenths for other units of measure.	
	Approved Yield				Round to nearest tenths for Barrels and Tons, otherwise nearest whole number for other units of measure.	<div>Malting Barley-Option A (MA)- Lesser of:</div> <div>MA Yield for Malt Barley</div> <div>OR</div> <div>APH Yield for Barley</div> <div>Malting Barley-Option B (MB) - Lesser of:</div> <div>Contracted Bushels per Acre</div> <div>OR</div> <div>APH Yield for Barley</div>
	Coverage Level Percent	P14	33	9.9999	None	
	Guarantee Adjustment Factor	P11	75	0.999	None	Guarantee Adjustment Factor would be for late planted acres.

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Price Election Amount = Additional Value Price	Price Election Amount	Internal		99999.999		Malting Barley - Option A (MA) - (1) The RMA issued Malting Barley Additional Value Price, or (2) Malting Barley price amount (Premium Amount) from a price agreement or a Malting Barley production contract that will be paid in addition to a specified barley futures price, or (3) The rpice per bushel from a price agreement or a malting barley production contract for malting barley less the barley Projected price. The additional value prcie is limited to \$1.25. Malting Barley-Option B (MB) (1) Malting barley price amount from a malting barley futures price, or (2) The price per bushel from a malting barley productino contract for malting barley less the barley Projected Price. The additional value price is limited to \$2.00.
Acre Stage Guarantee Amount = Production Guarantee * Price Election Amount	Acre Stage Guarantee Amount	P21	36	999999999.99	Round to dollar and Cents	
Section 11: Malting Barley Loss Guarantee Calculation						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	49	99999999.99	Round to whole number.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	40	9.999999	None	

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Revenue Conversion Production To Count = Production to Count Quantity * Price Election Amount	Revenue Conversion Production To Count	P21	46	99999999.99	Round to 2 decimals.	
	Production to Count Quantity	P21	34	99999999.99	None	
	Price Election Amount	Internal		99999.9999	None	
Section 12: Malting Barley Indemnity Calculation						
Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	35	\$99999999.99	Round to whole number.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	52	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	48	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	53	\$9999999999	Round to whole number	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		\$9999999999	Round to whole number.	